

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
25 September 2003 (25.09.2003)

PCT

(10) International Publication Number
WO 03/078406 A1(51) International Patent Classification⁷: C07D 251/68,
D21H 21/30, C07D 251/50

(21) International Application Number: PCT/EP03/02620

(22) International Filing Date: 13 March 2003 (13.03.2003)

(25) Filing Language: English

(26) Publication Language: English

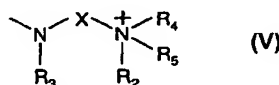
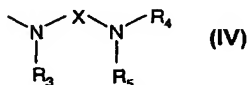
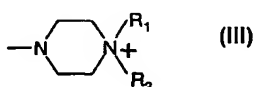
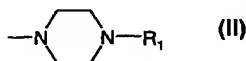
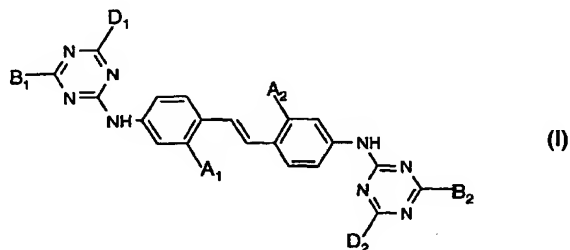
(30) Priority Data:
02405211.0 19 March 2002 (19.03.2002) EP(71) Applicant (for all designated States except US): CIBA
SPECIALTY CHEMICALS HOLDING INC. [US/US];
Klybeckstrasse 141, CH-4057 Basel (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SCHEFFLER,
Goetz [DE/DE]; Schlossweg 7 b, 79639 Grenzach-Wyhlen(DE). ROHRINGER, Peter [CH/CH]; Sechsjucharten-
strasse 1, CH-4124 Schönenbuch (CH). SCHLATTER,
René [CH/CH]; Landauerhofweg 19, CH-4058 Basel
(CH). DEISENTOH, Ted [US/DE]; Talmattstrasse 30,
79739 Schwörstadt (DE).(74) Common Representative: CIBA SPECIALTY CHEMI-
CALS HOLDING INC.; Patentabteilung, Klybeckstrasse
141, Ch-4057 Basel (US).(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD,
SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US,
UZ, VC, VN, YU, ZA, ZM, ZW.(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: AMPHOTERIC AND CATIONIC FLUORESCENT WHITENING AGENTS



(57) Abstract: Abstract A compound of the formula wherein A₁ and A₂ each, independently of one another, represent -SO₃ or -SO₃M, where M represents hydrogen, an alkaline or alkaline earth metal, ammonium or alkylammonium, B₁ and B₂ each, independently of one another, represent the moiety in which R₁ represents hydrogen, a straight-chain C₁-C₁₂alkyl or branched C₃-C₁₂alkyl group which C₂-C₁₂alkyl and C₃-C₁₂alkyl group, respectively, may be interrupted by one or two heteroatoms and is unsubstituted or substituted by one or two -OH, -OC₁-C₄alkyl, -NH₂, -NHC₁-C₄alkyl, -N(C₁-C₄alkyl)₂, -N-pyrrolidino, -N-piperidino, -N-morpholino or -N⁺(C₁-C₄alkyl)₃ groups and R₂ represents C₁-C₄alkyl, C₂-C₄hydroxyalkyl, -CH₂CONH₂, -CH₂COOH or -CH₂COO C₁-C₄alkyl or, alternatively, B₁ and B₂ each, independently of one another, represent a group of the formula in which R₃, R₄ and R₅ each, independently of each other, represent hydrogen, C₁-C₄alkyl, C₂-C₄hydroxyalkyl, the group -X'-NR₆R₇ or the group -X'-N⁺R₃R₆R₇, whereby at least one of the substituents R₄ and/or R₅ represents -X'-NR₆R₇ or -X'-N⁺R₃R₆R₇, X

and X' each, independently of each other, represent a straight-chain C₂-C₈alkylene or branched C₃-C₈alkylene chain, which is unsubstituted or substituted by one or two -OH or -C(=O)- groups, R₆ and R₇ each, independently of each other, represent hydrogen, C₁-C₄alkyl or, together with the nitrogen atom to which they are bound, complete a pyrrolidino, piperidino or morpholino ring and R₂ is as previously defined and each D₁ and D₂, independently of one another, are either defined as for B₁ and B₂ or represent halogen, -NH₂, C₁-C₄monoalkyl- or dialkylamino, said alkyl groups being unsubstituted or substituted by C₁-C₄alkoxy, amino, mono- or di-C₁-C₄alkylamino or tri-C₁-C₄alkylammonium; C₂-C₄hydroxyalkylamino, C₂-C₄di (hydroxyalkyl)amino, anilino, an aniline monosulphonic acid or sulphonamide residue or a 5- or 6-membered, saturated heterocyclic ring or, alternatively, mixtures of compounds of formula (1), a process for their preparation and the use thereof as fluorescent whitening agents, especially for paper.



Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

INTERNATIONAL SEARCH REPORT

International Application No
EP 03/02620

| | | |
|---|---|-----------------------|
| A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07D251/68 D21H21/30 C07D251/50 | | |
| According to International Patent Classification (IPC) or to both national classification and IPC | | |
| B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07D D21H | | |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched | | |
| Electronic data base consulted during the international search (name of data base and, where practical, search terms used) CHEM ABS Data, EPO-Internal, WPI Data | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | |
| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
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| <div style="display: flex; justify-content: space-between;"> <input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex. </div> | | |
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| Date of the actual completion of the international search | Date of mailing of the international search report | |
| 23 July 2003 | 31/07/2003 | |
| Name and mailing address of the ISA | Authorized officer | |
| European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016 | De Jong, B | |

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International Application No

EP 03/02620

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